

SK1020D~SK10200D

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 200 Volts

CURRENT

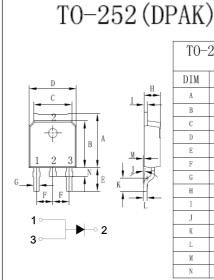
10 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For through hole applications
- · Low profile package
- · Built-in strain relief
- Low power loss, High efficiency
- · High surge capacity
- · For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · Lead free in comply with EU RoHS

MECHANICALDATA

- Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking



10 202 (DI IIII)											
Unit:mm											
MIN	MAX										
6.85	7.25										
5.90	6.30										
5.13	5.53										
6.40	6.80										
2.90	3.30										
2.19	2.39										
0.45	0.85										
2.20	2.40										
0.41	0.61										
0°	8°										
1.45	1.85										
0.41	0.61										
0.00	0.12										
0.60	1.00										
	Unit:mm MIN 6.85 5.90 5.13 6.40 2.90 2.19 0.45 2.20 0.41 0° 1.45 0.41 0.00										

TO-252 (DPAK)

MAXIMUM RATINGS

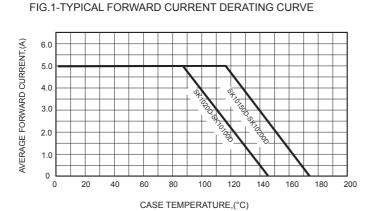
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SK 1020D	SK 1040D	SK 1045D	SK 1050D	SK 1060D	SK 1080D	SK 10100D	SK 10150D	SK 10200D	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	20	40	45	50	60	80	100	150	200	v
Maximum RMS Voltage	V _{rms}	14	28	31.5	35	42	56	70	105	140	v
Maximum DC Blocking Voltage	V _{DC}	20	40	45	50	60	80	100	150	200	v
Maximum Average Forward (See Figure 1)	I _{f(AV)}	10								A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{fsm}	150								А	
Maximum Forward Voltage at 10A per leg	V _F	0.55 0.70 0.85 0.90 0.9				0.92	v				
Maximum DC Reverse Current at Tj=25°C Rated DC Blocking Voltag Tj=100°C	I _R	0.2 20									mA
Typical Thermal Resistance Note 1	$R_{_{ extsf{ heta}J}C}$	25								°C / W	
Operating Junction and Storage Temperature Range	T _j ,T _{stg}	-55 to +150 -55 to +175								°C	

Note 1: Mounted on FR-4 PCB Copper, minimum recommended pad layout



RATING AND CHARACTERISTIC CURVES



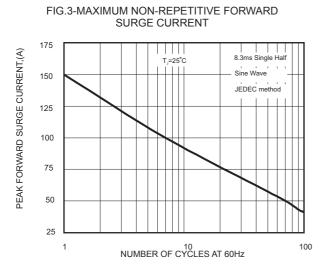
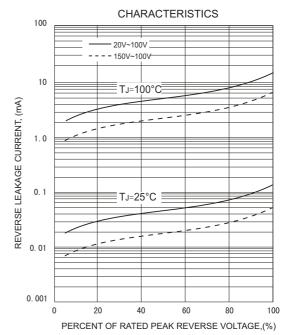


FIG.2-TYPICAL FORWARD CHARACTERISTICS 10 10 1.0 0.1 0.1 0.1 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 FORWARD VOLTAGE,(V)

FIG.4- TYPICAL REVERSE





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